

W3CZY

QUA RAE

ARRL

QUA HERE IS NEWS OF
RAE RADIO ASSOCIATION OF ERIE

ERIE METROPOLITAN VHF SOCIETY
TRI-STATE EMERGENCY NET
LAKE ERIE EMERGENCY NET
GENERAL ELECTRIC ARS

QUA-RAE
EDITOR-K3AFO
JOHN A. YOKOFF
P.O. BOX 183
ERIE . PA. 16512

MCDOWELL ARC
BEHREND ARC
CORY ARC
ATES ARC
RACES
AREC
RAE

RADIO ASSOCIATION OF ERIE
P.O. BOX 844
ERIE . PA. 16512

★ QUA RAE STAFF ★

K3AFO JOHN YOKOFF 868-2220
W3BRB JOHN GEBLER 868-1217
WA3GSH BARRY CAPELL 455-0034
K3HSM CHARLES McCOY 864-8030
WA3HSR MICHAEL HALL 833-9649
K3PLV CRAIG HILL 796-4964
MISS BONNIE ZACZYK

Success of city-wide Rat Patrol celebrated
by massive mobile rally held in obscure pump-
kin patch in honor of the coming of the GREAT
PUMPKIN

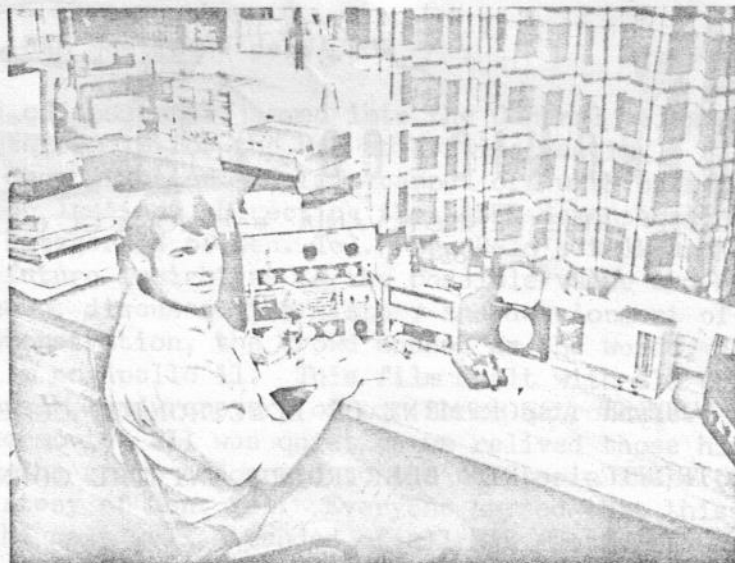
de WA3GSH

It was indeed a different Halloween this year. Absent was the pouring rain, the blinding snow and the chill wind that has accompanied past Halloweens. The city streets during past years were occupied only sparsely by the young folk due to the wicked weather, allowing goblins free access to roam the streets and terrorize the town folk. Ideal weather, as it now seems, for making ghostly mischief; for making haunted houses seem even more menacing. For lending substance to ghostly figures scurrying through the night on their deeds of terror. Such is typical of past Halloweens.

A different mood enveloped the city this past Halloween, however. Gone was the howling wind that caused mysterious voices to be heard in strange places in the night. In its place was a tranquil scene, a near calm. In place of snow and rain there was a beautiful autumn evening. Somewhere, somehow somebody goofed. Little children and big children alike visited every house in search of Halloween plunder. The city was fairly alive with activity during the early evening. To be sure, it was a bad situation from a goblin standpoint. Where was the wind and rain which served as a shroud for goblin activity? But before the hordes of frustrated goblins could recover and begin to cope with the situation the "MOBILE MEN" moved in and took command. It proved to be too much for the goblin crowd. Dividing the city into segments, the mobile men patrolled the city with a vengeance, leaving no stone unturned. Woe be to any goblin caught in the mighty onslaught of these keepers of the night. The mobile men patrolled east; they patrolled west; and north and south. And there was no part of the city that they left untouched, much to the dismay of many a young man parked in a secluded and dimly lit lover's lane area.

They roamed the highways and byways with eyes ever alert for shenanigans. And the goblins lost their cool. Their organization completely fell apart. They broke and ran. Out of all the city's nooks and crannies the goblins emerged running scared. They scattered in all directions making a hasty exit from the city. But the mobile men homed in on them. Jim McCray (WA3HRJ) terrorized a group of them near Frontier Park and broke up the group before they could retaliate. Brownie (K3QAY) put the finger on a holdout group plotting a mischief campaign behind a church in the city's southeast sector. John Gebler (W3BRB) visited the upper Kearsarge area and cut off the goblin escape route along Rt. 19 while Doc Baxter (W3YWL), Robby Weaver (W3WDK), John Yokoff (K3AFO) and Don Stichick (W3HLM) shored up the city's west side. While Fred Tate (WA3GIV) and Fred Byrd (W3UCZ) watched the east side, Chuck Lewis (K3ATZ) stalked the waterfront. In the middle, Glen Vest (K3QWZ), Larry Herman (W3JTF) and Gary Kostek (K3KRA) watched the city's south central sector. Bernie Alcorn (WA3ERZ) must have had some inside dope of the goblin operation headquarters because he raced into the city from North East and disappeared; reappeared later and was heard chasing a band of goblins east on I-90 (Must have been a North East contingent that came in to support the local goblin group). Apparently it was more than he had bargained for as it was not a few minutes later that W3WDK left the city and headed east on 90 to help him.

But the massive campaign thoroughly thwarted the goblins. No incidents of any magnitude were reported. With this in mind the mobiles triumphantly journeyed to a remote pumpkin patch and awaited the arrival of the Great Pumpkin. This event was marred only by a small black and white beagle-like dog accompanied by a little boy dragging a blanket who were seen walking dejectedly out of the pumpkin patch muttering something about invasion of the privacy of a rural pumpkin patch.



WA3HSR, Mike Hall

Ham of the Month de K3HSM

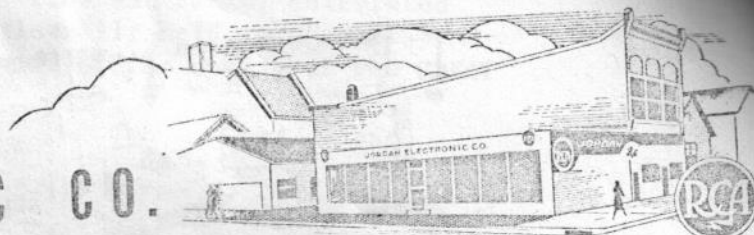
The QUA-RAE Staff is pleased to feature as Ham of the Month -- Mike Hall WA3HSR who has recently joined our staff.

Mike got his start in radio as a SWL and has many QSL cards from Foreign Broadcast stations. Later Mike attended Bart Geer's radio classes at the YMCA and picked up his novice ticket in April of 1967 and the General class ticket in March of 1968. WA3HSR is a past president of the McDowell radio club and served on this past years Hamfest Committee where his contributions helped make this event a success.

Mike is now attending Edinboro State University where he is enrolled in education, majoring in Earth and Space Sciences.

DXing on 15 meters is Mike's favorite hamming activity and he now has 63 countries worked with 42 confirmed. Rig is a DX60B, HG10 VFO, HR10 RCVR and last but not least a TA32 beam.

We of the QUA-RAE are very happy that Mike can find the time in his schedule to contribute to our publication and the QUA-RAE is certain that this energetic and reliable young man will achieve his educational goals and also help strengthen the Ham fraternity in the Erie area.



260 EAST 12TH STREET • ERIE, PENNSYLVANIA • PHONE GL 6-2983
16512

DISTRIBUTOR

FOR ERIE'S WIDEST ASSORTMENT OF ELECTRONICS COME TO
JORDAN ELECTRONIC----KEY ELECTRONIC,, AT THE CORNER OF
TWELFTH AND ~~GERMAN~~ ST.

We still have a limited number of RCA Automatic Rotors left, at the Ham special price of only \$ 27.00, this is a regular \$ 29.95 net item.

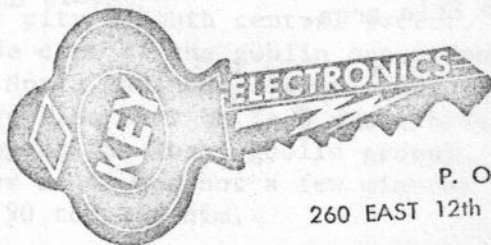
The can condenser deal is still on, a large assortment still available for from 39¢ to 69¢, look through the bunch and take your pick, stock up now for future construction projects.

We stock the complete line of Callectro "Goodies" for experimental projects, coils, relays, printed circuit boards & kits, resistors, condensers, etc. Come in and look around.

Volume controls, special now only 29¢, take your pick.

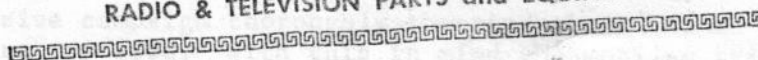
Owned and operated by Bob Jordan, W3KZU

PHONE
456-2983



P. O. BOX 882
260 EAST 12th ST. ERIE, PA. 16512

RADIO & TELEVISION PARTS and EQUIPMENT



December 18 RAE Meeting de WA3HSR

A crowd of about 150 jammed into the General Telephone building's auditorium on December 18 for the RAE activities meeting. Highlighting the event was a LASER demonstration and film capped off with official NASA films of the Apollo 11 moon landing. Directing the LASER demonstrations were Mr. Ray Delo and Mr. Ray Fitzgerald of Gen. Tel. Mr. Delo's talk and demonstration gave all present and future insight as to the possible value and uses of the LASER. The films shown, discussed the history and development of the coherent light. After the demonstration, the crowd hushed as the words, "The Eagle has landed" began the film on Apollo 11. This film dealt with all phases of the launch, flight, moonwalk, and recovery of our three astronauts. During the entire length of the movie, all was quiet as we relived those historic days. After the meeting, the group adjourned to the cafeteria where coffee and donuts were provided courtesy of Gen. Tel. Everyone agreed that this was one of the best and one of the most well attended of all RAE meetings. We all owe a debt of thanks to those at Gen. Tel. who made the event possible.

DON'T FORGET, REGULAR BUSINESS MEETING OF RAE ON JANUARY 15, 1970
8:00 PM AT THE RED CROSS BUILDING, 6TH AND SASSAFRASS.

Mark April 3 on your Calender It's the date of the giant
RAE Auction.

May Day call on Lake Erie

K3AFO and WA3DJT were contacted at 2:30 AM December 31, on a May-Day distress call monitored on 27 MHZ by local CBers. The distress call is believed to have been originated somewhere on Lake Erie (Beam Headings pointed 4° from Erie). WA3DJT monitored the 27 MHZ band until 3:30 AM with no further distress calls heard. Other operators from North East, Ripley, Dunkirk and Buffalo were alerted. The following call was heard -- "May-Day ship to shore 193, this is55193" The snow static was intense and location and call sign were not copied Q5 in Erie. The Erie Coast Guard were in constant touch with the CB and Ham operators. At this writing (12-31-69, 11:45 AM) an investigation is still being conducted by the Coast Guard)

Amateur Radio Club of Corry de WA3HRX, Pat Cooney

The Corry Amateur Radio Club (Club call, W3YXE) meets every second Wednesday of each month at 7:00 PM for their business meetings and the fourth Monday of each month for work meetings. Latest project is a two meter kilowatt transmitter. The newly elected officers for 1970 are as follows:

President:	W3KJE Harry Coulter
Vice President:	W3AGF Cecil Messinger
Sec./Treas.:	WA3HRX Pat Cooney
Station Trustees:	W3DUB Duard May
	W3AHH Quentin McCray
	K3KAP Gerald Owens

We extend a warm welcome to all radio amateurs or interested persons to come to our meetings. Our club house is located behind Slocum's Electronics, 765 East Main Street, Corry, Pennsylvania.

DXing by K3AFO

1. DX Strays:

- W3BBO reports working the XFA Expedition on SSB.
 K3AFO worked OJØMR (Market Reef) which was recently added on the ARRL countries list
 W3BRB recently submitted his DXCC application. John recently took a trip to Moscow to check Box 88.
 WA3HSR chased ZMIAAT/K in the Kermadecs for an evening. Mike says "I'll get him yet!"
 K3TUP Reports working a Syrian station (YK) on 10 mtr CW
 W3VHP skeds G6BY regularly on 10 mtrs.
 W3WZ receives many "outstanding" signal reports from DX stations. Cass really puts out a rock crusher.
2. Look for MP4QBK (Qatar Expedition) on February 21 - 27. Operators will be SVØMI, OD5BZ, MP4EHH, etc.
 3. OJØMR has been accepted by the ARRL as a new country. Expedition active from this area (Market Reef) on 10, 15, and 20; Dec. 27-31. QSL's go to OH2NB. Market Reef is located near OH land.
 4. Expedition soon from Fernando Poo, 3Ci (formerly EAØ).
 5. ZD9BM heard regularly on 10 mtr SSB, 28.6MHZ, around 0830 local time.
 6. XFAKS and XFAEB Expedition widely reported in Erie on 10, 15 and 20 meters.
 7. UA1CK/Franz Josef Land - Expedition planned in either Jan/Feb or April/May.
 8. VK9KY Cocos Island, a good catch; worked in Erie on 14,320 SSB at 0800 local time.
 9. 9M2LN Malaysia, heard occasionally at 1830 local time on 14,060 KC.
 10. VKØKW, Macquarie Island can be worked during weekends on 20CW.
 11. FH8CD reported by W3BRB on 10 mtr. SSB, 0900 local time on 28.6.
 12. Gus Browning will be leaving in March or April for another "Rare Country" Expedition tour, -- details in future QUA-RAE issues.
 13. DX contests: Jan. 24-25 160 mtr WW DX contest
 Feb. 7- 8 ARRL DX Phone Contest
 Feb. 21-22 ARRL DX C.W. Contest

Propagation de K3AFO

- 10 Meters Excellent openings to most of the world still with us from shortly after sunrise to the late afternoon and early evening hours. Band will improve as the days get longer.
- 15 Meters Will still be a toss up between 10 for best DX band during daylight hours.

Propagation (Cont'd)

20 Meters Optimum Condx during sunrise and sunset hours.
 40 Meters To Europe in late afternoon and Oceania during sunrise period.
 80 Meters Follow dark path

Silent Key

W3VV Warren A Somers, Derrick City, Pa. Many Erie Hams have talked to Warren on 3,955 KHZ. We will all miss Warren.

Erie Ham activities are carried monthly in QST by W3G-JY, SCM, W.PA.

W3DPJ received WAS on 160 meters during 1969!!

December 21, XMTR Hunt de K3PLV

The last xmtr hunt of the year was held December 21, 1969 beginning at a new time of 6:30 P.M. Snow and bad weather prevented a large turnout although the ten meter boys proved to be the bravest.

In order of appearance (Hidden Xmtr location in back of "Roller Skating Rink")
 10th and Rayne Street

10 Meters

K3PLV/WA3HSR
 K3AFO
 W3WDK
 WA3GIV (Hidden Xmtr)
 W3YWL

6 Meters

WA3HRJ
 W3UCZ (Hidden Xmtr)

Next xmtr hunt will be held January 18, 1970 at 6:30 PM, weather permitting.

Look for new scoring system and rule changes in future QUA-RAE issues (Top xmtr hunt mobile will receive a valuable prize at end of year).

The Calls listed below, are paid members of the RAE for the year 1970. If your call does not appear, it is time to get your dues (\$1.50) in for the new year. Mail them to R.A.E., P.O. Box 844, Erie, Pa. 16512 or contact RAE Club Secretary, W3BRB, 868-1217. This list compiled as of 12/30/69.

Note: 24 new club members added to the RAE at the December 18, 1969 meeting. Let's keep it up.

K3AER	WA3GSH	WA3KKT	W3PJD
K3AFO	K3GYD	W3KPJ	K3QHO
W3ALD	WA3HDK	W3KPM	K3QIP
W3AQY	K3HFL	K3LIG	W3QCN
K3ATZ	WA3HGJ	W3LJF	W3RLJ
K3AXS	WA3HLN	WN3LKR	K3SBU
W3BBO	Raymond Hool	K3LQN	W3SLC
WA3BBV	WA3HRH	WN3MAU	W3SN
W3BRB	WA3HRJ	WN3MFL	W3STK
WA3BVI	WA3HRX	W3MJV	W3TMK
W3BVM	K3HSM	WN3MKA	W3TFW
WA3COO	WA3HSR	WA3MKT	K3TUP
WA3DJT	W3HTD	WN3MTS	Emmanuel Tzouanakis
W8DLW	W7IKZ	WA3NGC	K3UIK
WA3DLS	WA3IOG	W3NGI	K3UPC
WA3FFD	WA3JAT	W3NXX	W3VHP
WA3GIV	WA3JFV	K3OSU	K3VLP
WA3GJH	WN3JIS	K3PAJ	K3VRM
WA3GHN	W8JIV	K3PES	K3VXE
K3CHD	W3JIW	K3PCI	W3WAX
W3LMK	K3KAP	W3PIX	W3WDK
W8UMS	W3LKJ	W3PIY	W3WZ
	WA3KFX	K3PLV	K3ZGG
	WA3KJQ		

10 Meters de K3AFO

1. NASA has agreed to launch Australis - Oscar 5 (10 meter satellite) as a secondary payload on the Tiros-M mission which should be within the next few months.
2. W3BRB has worked DXCC on 10 meter AM and SSB.
3. WA3ACM reports hearing WA3DJT, W3BRB/M and K3AFO on 29 MHz from Rota, Spain (Dave is stationed there with the U.S.N.)
4. Net Control for the 10 mtr net (29.150 MHz) during January will be WA3DJT.
5. Transmitter hunt on 10 meters scheduled for Jan. 18 at 6:30 PM
6. Active on the 10 meter band during the holidays were: K3ABG, K3AFO, WA3CEN, WA3COS, WA3DJT, W8DLW, W3HLM, WA3HRX, W3HTD, K3KAP, W3KKJ, K3KRA, K3PCI, W3QPC and W3RVG.

What's the story on the Call Letter License Plates for 1970?

Three Different cases have been reported:

- Case #1 -- Money and applications have been returned to be resubmitted later.
- Case #2 -- Money and applications have not returned, 1970 plates should be issued later (We hope)
- Case #3 -- 1969 Call Letter Plates issued on 1970 applications (ask WA3GIV)

Please contact K3ZGG, Wendell Good, 456-2213 or 453-5004, if you have encountered difficulty with your Call Letter License Plate Application.

About VHF de WA3GSH
Emergency Coordinator, Erie County

23rd VHF Sweepstakes

Here we are still awaiting the arrival of the scores from the September VHF QSO party and another VHF wingding is in the making. January 10 and 11 is the date for the VHF Sweepstakes. This year's bash will start at 2:00 PM local time on Saturday and will continue until midnite on Sunday (34-hour period). In view of the fact that many of you might not get this newsletter prior to contest time, we will not belabor the issue

1970 Simulated Emergency Test (SET)

Let us all be forewarned that this year of 1969 has drawn to a close and that the January SET is upon us again. For you hard and fast AREC and RACES members take special note of the dates January 24 and 25. Plan to leave this weekend open for emergency drill activity. QST for December 1969 carries an article by Communications Manager George Hart on the problems involved in achieving an emergency simulation. This article is on pages 66 and 67. Remember that a true emergency seldom announces itself ahead of time.

2 - Meters and FM

Listening on 146.94 on the evening of December 29, several observations concerning activity could not help but be made. To start, this evening experienced an opening on the 2 - meter band. With the notable lack of signals heard on the band for a number of days it was renewed interest that was generated by the return of conditions suitable for propagation. In the August issue of this column, I mentioned the problems of weather which seemed to affect the strength of 2 - meter FM signals. During periods of heavy clouds it is often completely quiet on the 2 - meter FM frequencies in the Erie area. During the summer and fall, WB2TLJ/2 (Buffalo repeater) and VE2KSR (Canadian repeater) were heard regularly with good signal strength. Now with cloudy wintertime conditions, it is only occasionally that these repeaters can be heard.

About VHF (Cont'd) - (2 - Meters and FM)

The problem of repeater interference seems to be a growing one. During times when both the Buffalo and Canadian repeaters are strong it becomes a series of interrupted conversations. Since VE3KSR is always stronger than WB2TLJ/2 and due to the fact that one of VE3KSR's output frequencies is the same as that of WB2TLJ/2 (146.94 mc) it is a severe problem of capture effect at work. Hence, the Buffalo conversations are scarcely heard in anything but bits and pieces. It appears that an agreement concerning frequencies should be made where common repeater output frequencies are coupled with widespread overlapping of coverage by two or more repeaters.

TRI-STATE EMERGENCY NET
meets on 50.52 Mc every Sunday
at 9:00 PM

SSB (Sale, Swap or Buy) de K3AFO

1. For Sale - TA33 antenna, Call W3PIX 866-7478
2. For Sale - T-60 xmtr, Call WA3MKT 454-6012
3. For Sale - 5 element full size 20 meter beam, a steal at \$20.00. Also new HQ-215 rcvr including all extra filters and xtals, Contact K3QJE 454-88
4. For Sale - NC240 D communications rcvr \$75.00, Call K3NAU 866-1132.
5. For Sale - Ameco R5 communications rcvr \$60.00, Call WN3LOW 833-6391.
6. Wanted:
 - a) Ham M or Prop-Pitch Rotator
 - b) Vacuum Variables
 - c) 4 - 1,000 A's
 Call 833-5983 if you have any of the above
7. Wanted: Loading Capacitor 1,000 to 1,200 PF (no larger than 8")
Call 455-0034 (after 6:00 PM)

News from the TOP BAND de WA3GSH

Armed with a new receiver, a new 25 - watt transmitter and a 135- foot end fed wire, this writer made his dent into the world of 160 meters. It wasn't much of a dent, mind you, but it did net a few respectable contacts. CW was tackled first with good success. Several New York and New Jersey stations were worked and reports averaged in the 579 bracket for the New York calls. Michigan stations came back with 589 reports and stations in Toronto, Canada and London were worked. All this was done under poor conditions accompanied by high noise levels.

Next was AM Phone. Results proved to be quite gratifying, especially in view of the very low power levels involved. Reports of 20db over S9 were received from Cleveland-area stations and quality reports were very good. Kit-taning, Pa. was worked with a very good report. Additional Ohio stations were worked who reported signals were not strong. When these same stations realized that the transmitter power was only 25 watts they completely revalued their reports. Phone activity was carried on in the 1825 to 1850 kc segment of the band where 100-watt rigs seem to be the standard of the day (outside Pa.)

TOP BAND (Cont'd)

Nonetheless, quite a few good reports were received. It seems evident that 25-watts can be fun on 160; both AM and CW. A number of roundtable discussions were encountered and careful listening to the oldtimers yielded a wealth of information concerning 160-meter antennas and the like. So if you want to try a new band look to low-power 160-meter work.

Correction to 160-Meter Power Allocations

Whoops! A slip of the typewriter last month resulted in a wrong set of figures for the 1800 to 1825 kc segment power levels. Here are the correct figures:

<u>1800 - 1825 kc</u>		<u>1825 - 1850 kc</u>	
<u>DAY</u>	<u>NIGHT</u>	<u>DAY</u>	<u>NIGHT</u>
500W	100W	100W	25W

Strays de K3AFO and QUA-RAE Staff

- W8BKM Wilbert C Gross, has retired after 40 years with the Nickel Plate Railroad. "Gross" plans to become even more active now and there's rumor that he may even do a little DXing.
- WA3AGM Dave Haibach, is with the U.S. Navy in Rota, Spain. Dave monitors the AM signals on 10 meters and reports hearing K3AFO, WA3DJT and W3ERB mobile in a local round table.
- K3PCI John Wagner is 10-10 Net member #541.
- W3NFR Herman Roth has a new heathkit transciever. How about turning the thing on Herm so we can hear what it sounds like?
- K3NAU/2 Charles Bliley heard on 40 meters as net control for ECARS. Chuck is stationed in Wild Wood, N.J. with the Coast Guard.
- W3DKL John Pinar has added a SWAN 350 and a TA33 to his station. John likes to operate 80 meters on the weekends.
- K6MZC(W3OIH) Stan Patterson is now K6MZC. Stan is now the furthest reader of the QUA-RAE and made a surprising land line call to your editor on Xmas Eve. If you'd like to drop him a line his address is 137 West Wells, San Gabriel, Calif. 91776 (Zip Code). Stan wishes everyone a Happy New Year and will be looking for Erie on the high end of 15 mtr. SSB.

Strays (Cont'd)

- W3WZ/W3LJF Cass and Josi Jackson will be attending the SAROC Hamfest and Convention in Las Vegas, Nevada on February 4 - 8. Cass plans to make a killing on the one arm bandits while he's there.
- WA3HRH Doug Sipple catching up on the DX during his college break.
- W8VYZ Bill Dolvin in Ashtabula can be heard working the Pittsburgh stations on 10meter ground wave (A.M. Mode). Bill runs a KW to a rhombic.
- WA3COO Carl Berringer now makes his new QTH in Texarkana, Texas.
- WA3GIV Fred Tate sent his application in for 1970 Call Letter License Plates and received call letter license plate for 1969.... That's pretty quick service.
- WA3GSH Barry Capell in process of installing a 10 meter mobile rig.
- W3HTD Lindsay Jeter active in the "N31" astronomy club.
- W3TPW Bert Van Houten recently gave away his daughter in marriage. Bert says now I'll be able to buy that SWAN!
- W3-SWL Emmanuel Tzouanakis, RAE member #88 is a native of Greece (Crete). Emmanuel monitors the ham bands for "SV" stations and hopes to get his ticket soon.
- K3UIK Bill Barczynski is very active on the CW bands. Bill says you have to adjust that "bug" just right to get that proper timing.
- W3VHP Doc Cook recovering after being a little under the weather. We all wish Doc speedy recovery.
- W3WDK Robbie Weaver skeds his son in Guam regularly on 15 mtr. SSB.
- WN3MTA Jim Smith is a new novice in Albion. Jim operates on 80 and 40.
- W3CBX "Forest" in Union City is looking for the Corry gang on 10 mtrs.
- W3BRB John Gebler recently submitted his DXCC application. John and XYL are presently recuperating after a two week trip to Moscow, U.S.S.R.
- WA3HSR Mike Hall recently purchased a car in which he hopes to put a mobile rig in. Mike should be more active now that he is commuting to college.
- W3HLM Don Stichick is back in the groove again after a recent operation. Don is active nightly on 29 MHZ after work (2355 local time). Hope you're feeling well Don.
- K3ATZ/WA3JJT Chuck Lewis and Steve Miller won VOM's at the December 18 RAE meeting at Gen. Tel.
- W8UMS (K3NVT) Howard Haynes can be heard from his mobile on 10 mtrs. during his many Erie visits. Howard now lives in Painesville, Ohio.

K3KAP Jerry Owens of Corry surprised the LEEN on December 28 with his good signal. We need more out of town check-ins.

WA3KFX Doug Grace can be heard working many 20 meter CW stations. Doug's replies are plentiful because of his excellent fist.

WA3JAT Jim Perry is anxiously awaiting warm weather so he can put up his new "mini-beam".

WA3GMV McDowell ARC received a good working "Apache" courtesy of Chuck Bliley K3NAU.

WN3JZX Dennis Heidt anxiously awaiting his WA3JZX call.

W3UCZ Fred Byrd busy experimenting with some varactor triplers for 432 MHZ

K3OSU Carl Rimmer encountering antenna problems at his new QTH.

WA3DPI Lou Radaker keeping busy in his travels back and forth to Michigan. Lou is also arranging for his daughter's wedding. Hope you get time edge wise to operate Lou!

W3MED Ken Milks is at work designing a new solid state frammis for his shack. What the heck is a frammis???

K4CAN (K3IOX) Bob Herman active on 6 meters while visiting Erie.

"Erie's Ham Headquarters"

Erie Electronic Supply Company, 1835 W. 26 Street, Phone 455-4512 --- drop in and say hello to John W3NXX.

John says, "if I ain't got it I can get it and at a savings to you." "I have all the top names in communications -- Hallicrafters, SWAN, Drake, Mosley, Mini-Products, Hammulund and the latest from Muntz". "See our supply of used and reconditioned ham gear." "There's some real bargains waiting for you!" "We also have towers, antennas and parts for that ham gear. Ham specials on color TV sets -- stop in!"

73's
John Kozak
W3NXX

CALENDAR OF EVENTS

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
11	12	13	14	15 RAE BUSINESS MTG	16	17
HIDDEN 18 KNITTER HUNT	19	20	21	22	23	SIMULATED 24 EMERGENCY
25 26	27	28	29	30	31	
1 2 3 4	5	6	7	8 RAE BUSINESS MEETING	9	10 APPLY BY MARCH 1 CONTEST
11 HIDDEN KNITTER HUNT	12	13	14	15 LINCOLN'S BIRTHDAY	16	17
18 HIDDEN KNITTER HUNT	19	20	21	22 MARS TALK AT RAE MEETING COMO CUE	23 COME ALL REINFORMED	24
25 WASHINGTON NATURAL DAY	26	27	28	29	30	31 LOOK OUT HERE COMES MARCH!

The coming Activities Meeting on February 19, 1970 will feature Bob Bair, WA3HDK, giving a presentation on the Military Affiliate Radio Stations Organization. As outlined in the December issue of the QUA-RAE, Bob is a very active MARS member. The details of this meeting will be announced in full in the February issue of the QUA-RAE.

To take a look at what will be coming later in 1970 for Activities Meetings, we will have John Gebler give us a slide presentation on the recent trip to Russia and Czechoslovakia that he and his XYL were on. Harold Shaner from the Transmission Section of General Telephone Company will present a lecture and demonstration on transmission lines.

**** ANOTHER EXTRAVAGANZA ****

We have made a tentative date for March 19 with Floyd Windom, W8GZ, of Columbus, Ohio who will make a trip to Erie to discuss the "Windom" antenna and the events leading to its development. This meeting will require a lot of effort on the part of the QUA-RAE Staff and the members of the RAE. Let us all support this event.

Also coming in 1970 on April 3 will be the RAE auction to be held at the Penelec Building on Evans Road. Jim McCray, WA3HRJ, is chairman of this event and he urges everyone to start preparing for this event now - dust off the used gear and build up the checking account - everyone benefits from an auction.

Summing it Up de K3AFO

The QUA-RAE continues to grow boasting a hard working staff of seven. QUA-RAE readers are concentrated mostly in the Erie and Tri-State area with additional readers spanning the two coasts in Conn., N.Y., Va., N.Y., Pa., Ohio, Mich., Tex., Fla., Ariz., and Calif. Only members of the RAE will receive regular issues of the QUA-RAE. Complementary copies will be sent to non-members from time to time. A reminder to old RAE members, be sure to get your 1970 dues in sometime during January if you do not appear on the RAE list in this issue of QUA-RAE (\$1.50).

The December 18 meeting at the Gen. Tel. Co. was undoubtedly the largest ham meeting held in this area in many a year (if not the largest ever). An overflow crowd of 150 was counted. Twenty-four new RAE members joined as a result of this meeting.

A new club house is still being searched for. The present location (Red Cross Building) is close quarters for any sizable gathering. A special committee has been assigned to this problem.

The QUA-RAE can only survive on your news. Make it a point to mail or call in any items of general interest about yourself or others. QUA-RAE deadline for all news is the last Wednesday of each month. The QUA-RAE staff hopes everyone had a Merry Xmas and pass along a Happy New Year to all.

73's
Ur Editor
K3AFO

EDITOR-K3AFO
JOHN A. YOKOFF
P.O. BOX 183
Erie, Pa. 16502

EDDREND APC
CORY APC
RACE
AREC
RAE

P.O. BOX 64
Erie, Pa. 16502

QUA RAE STAFF

K3AFO JOHN YOKOFF 868-2200
W3BRB JOHN GEBLER 868-1217
W43GSH BARRY CAPELL 455-0034
K3HSM CHARLES MCCOY 864-8030
W43ISR MICHAEL HALL 833-9849
K3PLV CRAIG HILL 798-4964
MISS BONNIE ZACZYK